



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-03-07-08 Date: 10-03-2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP,
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at balance portion in kamakshamma layout and surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000122/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-03-2018
Sample ID No : 2018-03-07-08 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 4
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 08-03-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.28	—
2	Finess by Air permeability method ($m^2/kg.Min$)	274.6	225 m^2/kg , Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-03-07-08 Date: 10-03-2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at balance portion in kamakshamma layout and surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000122/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 07-03-2018

Sample ID No : 2018-03-07-08 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 07-03-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5439	5781	38.5	61.5	30-70
4	10 mm	4579	10360	69.1	30.9	10-35
5	4.75 mm	4260	14620	97.5	2.5	0-5
6	Pan	380	15000	100.0	0	---



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TEST RESULTS OF STEEL

Lab ID : CP-2018-03-07-08 Date: 09-03-2018
Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address : Yelahanka Sub division, BBMP, Bangalore.
Project Name : Improvements to roads and drains at balance portion in kamakshamma layout and surrounding areas in ward No.02 of Yelahanka Sub Division.
Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64
Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000122/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-03-2018
Sample ID No : 2018-03-07-08 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 08-03-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.613	564	682	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.878	585	695	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-03-07-08 Date: 12-03-2018

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at balance portion in kamakshamma layout and surrounding areas in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Y.A Dhanashekar, No.10, K.H.B Colony Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/000122/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-03-2018

Sample ID No : 2018-03-07-08 /06

Sample Type /Size : 100mm thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.216	4477	91.2	20.4	18.9	23.7
2	Cover Slab-2	75.49	100.52	1.222	4475	95.3	21.3	19.8	24.8
3	Cover Slab-3	75.50	100.51	1.218	4476	91.9	20.5	19.1	23.9

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